

## Product Description

SNOM fiber probes with glued quartz tuning-forks for NTEGRA line systems (NT-MDT Co.) with measuring head SNLG101NTF and Solver line systems with measuring head SNLG101.

Set of 10 SNOM probes with transmitted wavelength 980-1600nm.

- Material - single mode optical fiber Nufern 980HP.
- Probe tip is coated by Al (70nm)/sublayer Cr (20nm) .
- Aperture (hole uncoated by Al)  $\sim 250 \pm 50$  nm
- Angle of fiber - about 20 degrees
- Maximum optical input power - 400 microWatt
- Tip is formed by chemical etching.
- Fiber length  $\sim 2$  meters.
- Tip length without protective coating is 7-8mm.

### Geometrical & Mechanical fiber Specifications:

Clad Diameter	125.0 $\pm$ 1.5 $\mu$ m
Coating Diameter	245 $\pm$ 15 $\mu$ m
Core-Clad Concentricity	< 0.5 $\mu$ m
Coating/Clad Offset	$\leq$ 5 $\mu$ m
Coating Material	UV Cured, Dual Acrylate
Operating Temperature	-55 to +85 $^{\circ}$ C
Short-Term Bend Radius	$\geq$ 6 mm
Long-Term Bend Radius	$\geq$ 13 mm
Proof Test Level	$\geq$ 200 kpsi (1.4 GN/m <sup>2</sup> )

### General Features

Basic Nufern fiber	980-HP
Operating wavelength	980-1600 nm
Second Mode Cut-Off	920 $\pm$ 30 nm
Measured Optical efficiency at the wavelength 530nm	10 (-2)
Calculated Optical efficiency at the working wavelength	10 (-5) - 10 (-4)